# Exhibit B

## INVENTION DISCLOSURE

### 1. INVENTOR (S):

Bret K Street James M Derderian Jeremy E Minnich

# RECEIVED

### 2. DESCRIPTION:

• Title:

Method of manufacturing an image sensor using a modified transparent lid.

• Brief Description:

The invention calls for the use of surface transition edges in a transparent lid to reduce, control or eliminate the issues caused by capillary action. The glass lid, which is placed over a semiconductor package, is scribed, cut, etched or built up to a desired depth to create a surface transition capable of breaking the capillary action on the liquid.

- -Transition points can window the critical sensor area
- -Adhesive can be placed on lid or on the wires prior to lid attach
- -Common description is a trench or firewall

### 3. CONCEPTION & DOCUMENTATION OF INVENTION:

• Date when first conceived:



• To whom was the idea first described:

Eschrock, Jreeder

• On what date:



• Date of the first tangible record:



• Type and location:

Idea documented in Inventor Notebook 0100223. (Jeremy Minnich) Idea first tested on with desired results. Pictures of testing taken using microscope. (Copy included)

4. INFORMATION RELATED TO INVENTION:

• Related invention disclosures:

United States Patent 6,566,745 Beyne , et al. May 20, 2003 (Copy Included)

• Closest technology:

Have heard that at least one manufacturer is using UV light to stop the flow of material.

• Advantages of this invention over previous technology:

Issues that lead to this invention.

- -Placing a glass lid on a liquid introduces capillary forces that make control of the liquid difficult. The liquid will often wet into the critical sensor array.
- -Setting the liquid with an initial gel creates a double process step.
- -Materials that do not wet into the critical sensor array are very viscous and tend to create wire issues and voiding. This invention allows:
- -A single run process at Lid Attach (Adhesive apply, Lid Attach, UV Cure)
- -Process allows for low viscosity materials that decrease possibility of voiding
- -Process allows the part to be made with a very clean adhesive line, which is controlled and cosmetically desirable.
- -Process allows the lenses to self-level and the cut area creates a vent, which eventually seals as the material runs along the transition edge.

### 5. IMPORTANT DATES:

• If the invention has been disclosed outside the company, please specify to whom it has been disclosed, when, and in what form:

This specific detail of the package has not been disclosed outside the company.

• If any articles describing your invention have been published, please specify the author(s), title of article, publication and date:

None

• If any engineering samples have been given out, please specify to whom and on what date they were given:

Sample were given out to engineering managers and supervisor for review on

• If any product using the invention has been sold or offered for sale, please specify to whom and on what date:

None

### 6. DISPOSITION OF THE INVENTION:

• When will (or did) Micron begin use of the invention experimentally:

Experimentation began on manufacturing continues.



Continued work on placment and

When will (or did) Micron begin production of this invention:

Intial live die builds scheduled for



### . 7. MISCELLANEOUS INFORMATION:

- ARPA project:
- Was the invention developed during a joint development agreement or other contract with an outside company:

Νo

• List developmental work outside of the company, including Government proposal or contract:

None

• This disclosure originated from work on the project:

None

• Has the subject matter of this disclosure been disclosed to any standards setting organization(JEDEC;IEEE;etc.):

No

### 8. INVENTORS:

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(All inventors must sign and date this disclosure form before it can be accepted

### 9. WITNESS:

A witness should sign and date this disclosure. A witness in this case is a non-inventor who understands the nature of the invention and can corroborate the inventor(s) conception of the invention.

( Signature of Witness ) ( Date )

Note: If you have any questions or you need assistance completing this form, please call the Patent Department, ext. 84520.



# Tenses Modification Profile







